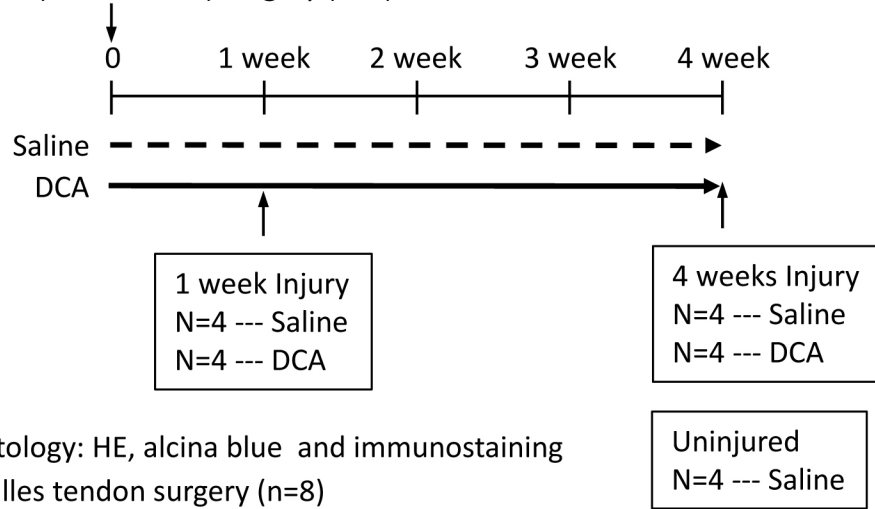


Appendix figure A1

A [U-¹³C]-Glucose metabolomics

Achilles tendon surgery (n=16)

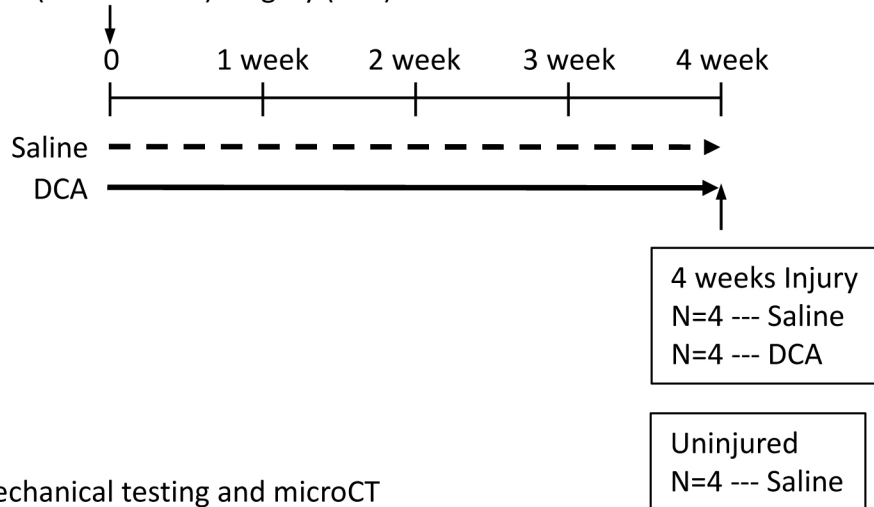
Sham (Skin incision) surgery (n=4)



B Histology: HE, alcina blue and immunostaining

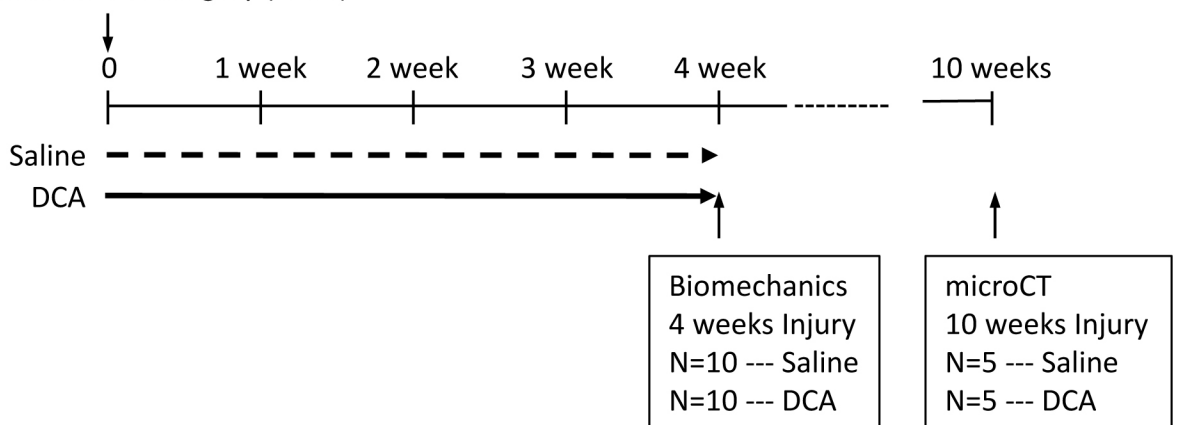
Achilles tendon surgery (n=8)

Sham (Skin incision) surgery (n=4)

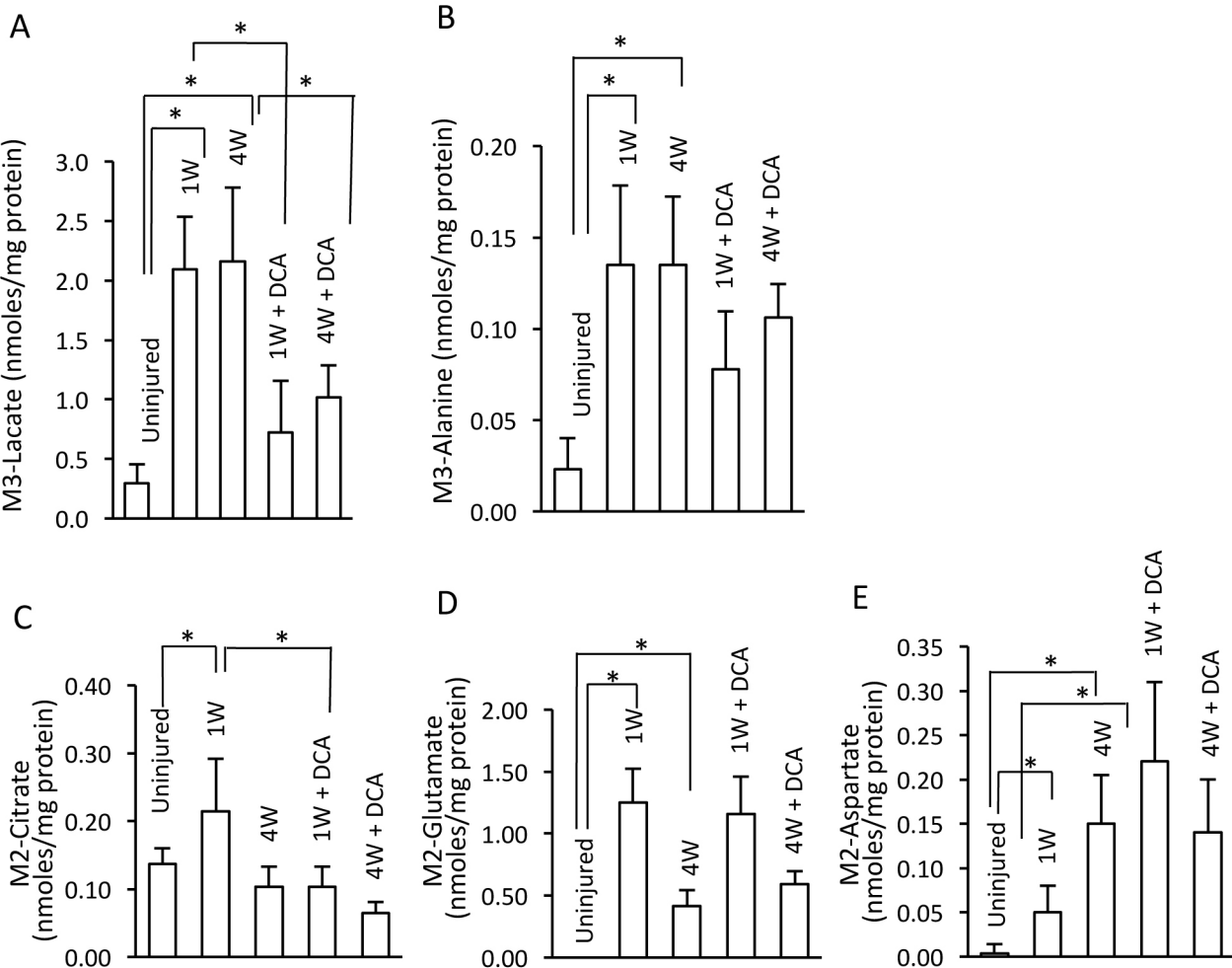


C Mechanical testing and microCT

Achilles tendon surgery (n=30)

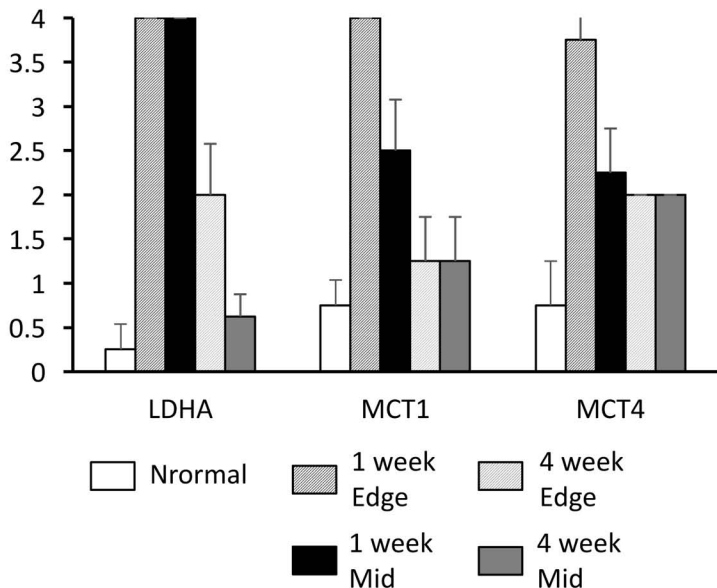


Appendix figure A2



Appendix figure A2. The generation of ^{13}C mass isotopomers of metabolites. The concentrations of ^{13}C -labeled metabolites, (A) lactate, (B) alanine, (C) citrate, (D) aspartate (D) or (E) glutamate was calculated by ^{13}C enrichment ($M\%E/100$) of mass isotopomers times concentration (nmol per mg protein) from the same tendon extracts described in the legend to Figure 1. The values represent mean \pm 1 S.D. *, $p < 0.05$

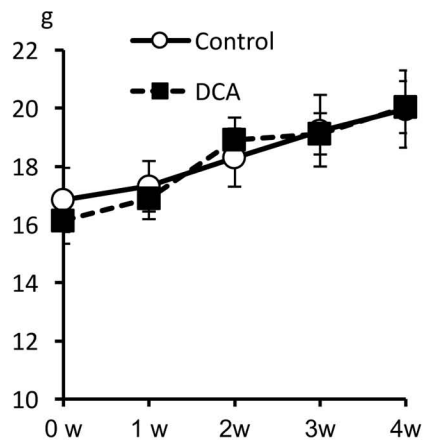
Appendix Figure A3



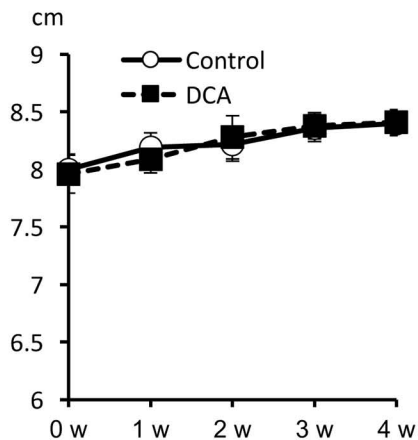
Appendix Figure A3. Semi-quantitative analysis of immunostaining for LDHA, MCT1 and MCT4 in injured tendons. The immunostaining images in Figure 3 were scored from 0-4 as 4 was strongest staining. The graphs represent mean \pm 1S.D.

Appendix figure A4

A Body weight



B Body length



Appendix Figure A4. Body weights and lengths of the mice that received Achilles tendon injury surgery and DCA treatment. C57BL/6j female mice received the Achilles injury surgery. DCA treatment (100 mg/kg, daily intraperitoneal injections) or vehicle saline treatment (Control) was performed from 1 day after surgery to 4 weeks. Body weight (A) and length (B) were measured weekly. The graphs represent average \pm S.D.